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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,625	03/24/2004	Krishna M. Ravi	HES 2003-IP-009511U1	4052
28857	7590	01/17/2006	EXAMINER	
CRAIG W. RODDY HALLIBURTON ENERGY SERVICES P.O. BOX 1431 DUNCAN, OK 73536-0440			COLLINS, GIOVANNA M	
			ART UNIT	PAPER NUMBER
			3672	

DATE MAILED: 01/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/807,625	Applicant(s) RAVI, KRISHNA M.	
	Examiner Giovanna M. Collins	Art Unit 3672	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-57 is/are pending in the application.
- 4a) Of the above claim(s) 3,12,24,33 and 45 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-11,13-23,25-32,34-44 and 46-57 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>20050418,20040324</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Species I- Casing with stress absorbing coating (Figs. 1-3);

Species II- Casing with stress absorbing material embedded within- not shown

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1,9-10,22,23,30-32,43, and 51 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

2. During a telephone conversation with Craig Roddy on 12/20/05 a provisional election was made with traverse to prosecute the invention of Casing with stress absorbing coating, claims 1-2,4-11,13-23,25-32,34-44, and 46-57. Affirmation of this election must be made by applicant in replying to this Office action. Claims 2,12,24,33,45 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Objections

3. Claim 13 recites the limitation "the housing" in line 2. There is insufficient antecedent basis for this limitation in the claim as this limitation has not been previously recited.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-2 ,4-9, 14-20,22-23,25-32,35-41,43-44, and 46-57 are rejected under 35 U.S.C. 102(b) as being anticipated by Gano 5,507,346.

Referring to claims 1,2,4,14, Gano discloses (fig. 1-3) a method of casing a wellbore comprising providing a casing comprising a sleeve (26) having a stress absorbing coating (38,48), placing the casing in the wellbore (10).

Referring to claims 5 ,16,26,37,47,and 53, Gano discloses the coating (48) is on the interior surface.

Referring to claims 6,15,27,36,48 and 54, Gano discloses the coating (38) is on the exterior surface.

Referring to claims 7, 17,28,38,49, and 55, Gano discloses the coating has a thickness of less than about 3 inches (col. 8, lines 60-61)

Referring to claims 8,18,29,39,50, and 56, Gano discloses a coating is applied by brush coating (col. 8, lines 41-54).

Referring to claim 9 ,19,30,40, 51,and 57, Gano discloses the coating comprises fiber and resins (col. 8, lines 41-45).

Referring to claims 20,31,32, and 41, Gano discloses a casing collar (34) that is a hollow cylindrically shaped housing connected to an end of the casing .

Referring to claims 22,23 ,25 and 35 Gano discloses (fig. 1-3) a method reducing transmission of stress form a casing to a cement sheath comprising providing a casing comprising a sleeve (26) having a stress absorbing coating (38,48), placing the casing in the wellbore (10 to form a annulus and placing cement (14) into the

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annulus and allowing the cement composition to set within the annulus to bond the casing to the formation (col. 8, lines 2-4).

Referring to claims 43,44,46 and 52, Gano discloses a casing comprising a sleeve (26) having a stress absorbing coating (38,48).

6. Claims 1-2,4,6,8,9,14,15,18,19,22,23,25,27,29,30,35,36,40,43,44,46,48,50-52,54,56 and 57 are rejected under 35 U.S.C. 102(b) as being anticipated by Bol 4,716,965.

Referring to claims 1,2,4, and 14, Bol discloses (fig. 1) a method of casing a wellbore comprising providing a casing comprising a sleeve (1) having a stress absorbing coating (5), placing the casing in the wellbore (2).

Referring to claims 6,15,27,36,48 and 54, Bol discloses the coating (5) is on the exterior surface.

Referring to claims 8,18,29,39,50 and 56, Bol discloses a coating is applied by hot melting (col. 2, lines 34-36).

Referring to claim 9,19,30,40, 51 and 57, Bol discloses the coating (5) comprises an resin (col. 2, lines (26-33)).

Referring to claims 22,23,25 and 35, Bol discloses a method reducing transmission of stress from a casing to a cement sheath comprising providing a casing comprising a sleeve (1) having a stress absorbing coating (5), placing the casing in the wellbore (2) to form an annulus and placing cement (3) into the annulus and allowing the

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cement composition to set within the annulus to bond the casing to the formation (col. 2, lines 40-62).

Referring to claims 43,44,46 and 52, Bol discloses a casing comprising a sleeve (1) having a stress absorbing coating (5).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 5, 16, 26, 37, 47, and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bol '965 in view of Gano '346.

Referring to claims 5, 16, 26, 37, 47, and 53, Bol does not disclose a coating on an interior surface. Gano teaching a coating on an interior surface to provide wear protection against contact from various tool lowered in the casing (col. 9, lines 35-44). As it would be advantageous to have wear protection, it would be obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus disclosed by Bol to have a coating on the interior surface in view of the teachings of Gano.

9. Claims 10-11, 13, 21, 34, and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gano '346.

Referring to claims, 10,11,13,21,34 and 42, Gano discloses a casing collar (36) that is hollow cylindrically shaped housing but does not disclose the coating is placed on the housing. Gano discloses the coating (layer 54) help to provide additional wear resistance (col. 10, lines 19-23). As it would be advantageous to have wear protection on the casing collar, it would be obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus disclosed by Gano to have a coating the surface of the casing collar.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Giovanna M. Collins whose telephone number is 571-272-7027. The examiner can normally be reached on 6:30-3 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gmc


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